

Workplace Alaska

Class Specification Carman Apprentice (Anch)

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Definition:

To provide an apprenticeship to attain journeyman status to perform the full range of repair and maintenance to equipment under the jurisdiction of the Carman craft.

Distinguishing Characteristics:

Examples of Duties:

Apprenticeship is served through a combination of self-study correspondence school courses and on-the-job practical instruction provided by the journeyman workers. Training is scheduled and phased. Assignments involve learning such trade practices and skills as the proper usage of tools and equipment of the trade; the order of assembling parts and identifying tools and equipment; reading blueprints, sketches, and technical manuals to understand the functions of the parts or systems, planning and laying out work, and trouble shooting parts or systems; repair techniques to include methods used in obtaining fits or tolerances; making adjustments and calibrations; and rebuilding and manufacturing parts. The apprentice performs operational functions and maintains working area in accordance with practices and procedures prescribed in ARR Manual of Safety Rules and Regulations for General Guidance and Protection of Railroad personnel. May occasionally be required to drive ARRC vehicles. Performs other duties as assigned.

Knowledge, Skills and Abilities:

Factor 1 - Knowledge

High school diploma or GED required. At least six (6) months of work experience in a mechanical shop environment (i.e., use of forklift, hand tools). Previous experience operating overhead cranes and a basic knowledge of welding preferred. Basic knowledge of arithmetic, geometry, and algebra is necessary. Practical knowledge of the principles underlying the work. Ability to read, write, and communicate. Must show good judgment in decision making and be able to improvise as required by the circumstances. Must be able to lift/carry tools, material, and equipment which may exceed 50 pounds or push/pull objects weighing up to several hundred pounds with use of a forklift/hand truck. Must be capable of using a respirator. Must have a valid drivers license.

Factor 2 - Responsibilities

Works under direct supervision of a journeyman worker or supervisor who sets assignments, priorities, establishes workload and reviews accomplishments for compliance with instructions. Follows safety rules and regulations and uses tools and equipment safely and properly. Determines the kind and quality of materials required to accomplish the work. As the skills and knowledge increase, less direction is provided. At the conclusion of the apprenticeship, the incumbent must be able to perform at the journeyman level.

Factor 3 - Physical Effort

Work includes lifting and carrying tools, materials, and equipment, which may, at times, exceed 80 pounds. Pushes and/or pulls objects of varying sizes and shapes weighing up to several hundred pounds with the assistance of forklift or pallet jack. Work requires walking, climbing, crawling, bending, and standing for extended periods of time. Work also requires, in most cases, both physical stamina and coordination to complete assignments.

Factor 4 - Work Conditions

Generally, the work is done indoors in heated shops; however, at times work is done outdoors in all types of climatic conditions. Work involves exposure to dust, dirt, slag, grease, and grime. Soiling of clothing and skin surfaces is normal. Will be exposed to excessive noise, vibrations, gases, and fumes from petroleum products in addition to electric arc flashes during welding processes, and excessive heat. The apprentice works on concrete, earth, metal, and wood surfaces in crowded areas near moving machinery and equipment. At times, these surfaces may be uneven, slippery, icy, muddy, and/or greasy. May occasionally come into contact with chemical compounds

such as acids or caustic solutions.

NOTE: Selected apprentices will be in training for three years, completing 6,000 hours of on-the-job training. On their own time, apprentices must successfully complete seven (7) Railway Educational Bureau lessons per month for two years and maintain a 90 percent average on all lessons. Lessons must be completed by the end of two years. In addition, apprentices attend a quarterly review with the Apprenticeship Committee. This includes review of safety performance, attendance records, lesson completion, step increase, and work process evaluation. Successful completion of the apprenticeship program is a condition of employment.

Minimum Qualifications:

Must possess a high school diploma or GED. At least six (6) months of work experience in a mechanical shop environment (i.e., use of forklift, hand tools). Verifiable working experience in one or more of the following areas is preferred: welding, sheetmetal work, carpentry, or pipefitting. Previous experience operating overhead cranes preferred. Basic knowledge of arithmetic, geometry, and algebra is necessary. Must be able to lift/carry tools, material, and equipment which may exceed 50 pounds or push/pull objects weighing up to several hundred pounds with use of a forklift/hand truck. Must be capable of using a respirator. Must have a valid drivers license. A MECHANICAL APTITUDE TEST AND A PHYSICAL ABILITY DEMONSTRATION WILL BE ADMINISTERED.

Required Job Qualifications:

(The special note is to be used to explain any additional information an applicant might need in order to understand or answer questions about the minimum qualifications.)

Special Note:

Minimum Qualification Questions:

Do you have a high school diploma or GED AND six (6) months work experience in a mechanical shop environment?